INDEX TO VOLUME XV

TELEPHONE ENGINEER

From January 1, 1916, to June 30, 1916

A

Attempt Telephone Merger in Virginia 22
Association News 31-34
Automatic Exhibits at Chicago Convention 48
Automatic Electric Company Holds Annual Session 52-53
Apparatus for Long Distance Wireless 66
A. T. & T. Earnings and Finances 94
American Association of Engineers to Publish Organ 107
Automatic's Twenty-Fourth Anniversary 108
A. T. & T. Borrows 50,000,000 118
Annual Report of the Bell System 175-176
Another Selecting Device 194
Aeroplane Telephones 262
Aeroplane for Line Repairs 262
Ask Connections After Chicago Merger 286
A. I. E. E. Convenes by Telephone 308
Automatic Sells Patent Rights 311

B

Brevities of the Business 54-56, 109-112, 165-168, 221-224, 277-280, 333-336
"Bug Hole" Trouble in Aerial Cables. By E. A. Irish 63-64
Battles Rages at Wisconsin Convention 121-124
Book Review 163
Bell Mergers of "No Great Importance." By Terry W. Allen 181-182
Bell and Consolidated Connect 187
Bierce Guy Wire Protectors, The 217
Bell Western Electric Question, The. Editorial 226-227
Buffalo Situation, The 242
Buried Cables 276
Bell Wants to Use Independent Lines 288
Blasting Pole Holes 307

C

Connection with Intercommunicating System 16
Coffey Accounting System for Telephone Company 51
Chance for Independent Action, A. Editorial 59
Colorado Indians Dislike Telephones 87
City of Keokuk Loses 128
Calls Return of Eight Per Cent Rate 187
Cross Country Line Growing Popular 194
Cumberland Valley to Use Automatic 217-218
Consolidating Bell and Federal Telephones 220
Chicago Telephone Issues $3,000,000 238
Changes in Standard's Branch Office Locations 242
Consolidated Has "Qualified Toll Service" 262
Chicago Merger Situation 272
Cruse Telephone Bracket 275
Coin Boxes Favorites in Los Angeles 276
Commissions for New Business 286
C. & P. Bell Covers West Virginia 288
Convention of Railway Telegraph Superintendents 288
Canada's Telephone Progress in 1915 291
Chamberlain Bill, The 299
Civil Service Examination, Telephone Engineer 304
City Ownership Figures in Los Angeles 308
Chicago Company Opens Recreation Camp 328
Complete Catalog of Telephone Supplies 330
Consolidated Publishes Monthly Paper 332

D

Duties of the Plant Superintendent. By L. E. Hurtz 17-18
Development in New Zealand 24
Diamond Expansion Bolt Sues for Infringement 53
Decatur Merger Case, The 66
Determining the Mean Light of Life 135-136
Directors of U. S. I. T. A. Meet 231-232
Devises a Time Limit Register 276
Denied Access to Cincinnati 332

E

Ecuador to Have New System 16
Efficiency of Telephone Dispatching 38
Exhibitors at the National Convention 46-48
Extension of Telephone Lines in Spain 49
Effect of Current Leakage on Soil 53
Engineering Features of Physical Connection. By Kempster B. Miller 71-76
Executive Committee U. S. I. T. A. Meets. By President C. Y. McVey 77-78
European Telephone Development. By Fred W. Scholz 79-84, 143-148, 188-194, 251-256, 292-296
Effect of Vibration of Structures 107
Ethics of Disloyalty, The. Editorial 113-114
Early Morning Call 124
Ed. Martin Has Hoodoo Date 148
Engineers' Welfare Organization Making Good 203
Entering Wedge in the Metropolis, The (Editorial) 282-283
End of the Inter-State 296
Experiences with a Farmers' Line 300
Experiments with a Tesla Coil 305
Extra Vacation Offered Bell Employes 328

F

First Convention of the New Association 9-15
Field Telephones Meet Peculiar Conditions 139-142
Familiarizing the Public with Long Distance. Editorial 169
Fifty Dollars a Week Will Do It. Editorial 225-226
5,500 Telephone Men to Dine 232
Flame Proof Enameled Jumper Wire 276
Five Cents Makes a Big Difference 291
Farmers' Mutual Telephones 302
Fort Wayne Holds Schools 304

G

Getting the Two Associations Together 4-8
Great Advance in Canadian Telephone Service 64
Get Physical Connection Into Chicago 227
Golden Lure, The. By Terry W. Allen 243-244
Governor Dunne Talks on Utilities 244
Galvanometer Design 256
General Insulate Company Expanding 276
Grounded vs. Metallic Rural Lines. By A. J. Seymour 311
"Give Your Telephone a Personality" 311

H

Hearing on Application for Franchise in New York City 36
How to Figure Illuminations 162
Hubbard's New Catalog 219-220
Hearing in State of Washington Finished 242

I

Independent Manufacturing Conditions. Editorial 3
Inter-State Receivership Fees Fixed 36
Illinois Independents Have Strong Meeting 65
Inductive Interference Progress Report 101-102
Independents Buy Indiana Morgan Holdings 108
Iowa College Giving Telephone Course 118
Iowa Companies Have Perpetual Franchise 150
Instruction in First Aid 194
Improvised Military Switchboard, An 186-187
Indiana Court Upholds Commission 196
Improvement of Paris Telephone System 204
Iowa Convention Attracts Crowd 206
Invention for Removing Solder and Tin 244
Indianapolis Reorganization, The 286
Imperfect Dielectrics and Radio Antenna 300
Illinois Naval Station in Wireless Tests 300
Insincere Tactics. By Terry W. Allen 303-304
Inductive Interference 306
Inter-Phone Catalog, New 332

K

Keeping Step with the Times. By H. N. Tolles 19-22
Kellogg Company Distributes Unissued Stock 30
Kellogg Exhibits at State Convention 107
Kellogg Universal Board at Manistique, Mich 161
Keystone Telephone Competition. By Edward M. Cooke 245-247
Kellogg Company Pays 50 Per Cent 250
Kellogg P. B. X, Propaganda 273-274

L

Lindsley Brothers Change Headquarters 7
Leeds and Northup Issue Catalogue No. 40 51
Leeds and Northup Peak Reading Voltmeter 53
Labor Refuses Petition 100
Leeds & Northup Galvanometer 106
Last Step in New York Merger 176
Los Angeles Regulators Agree 182
Locating Defective Sleeve Connections 184-185
Line Interference in Nebraska 220
Leakage of Current from Electric Railways 250
Light Forest Service Telephone 264
Localize the Independent Investments (Editorial) 281-282
Los Angeles Merger Plans 288
Lesson in Government Ownership, A 296

M

Minnesota Telephone News 28-30, 91-92, 151-154, 207-210, 265-266, 309-311
Michigan Companies End Harmony Conference 70
Montana Company Dissolved 84
Most Costly Mile of Wire, The 87
More Equipment for Columbus 106
Methods Employed in Valuation. By C. M. Larson 137-139
Merger Case in Nebraska 148
Mackay Interests Busy in East 158
Merger Not Worth Stopping, A 170
Mr. Vail Says It Is Still in Force. Editorial 170
Membership Benefits Small Exchanges 195-196
Municipal Ownership Question Raised 216
Modern Telephone Trucks. By Frank C. Perkins 229-230
Magnetic Amplifier for Radiotelephony. By E. F. W. Alexanderson and S. P. Nixdorff 257-262
Merger Talk in Los Angeles 272

N

New "Diamond X" Shield, A.... 16
New York Telephone Company Purchases York State.... 24
New Corwin Company to Manufacture at La Fayette.... 51
Novel Fan Equipment for Southern Building.... 51
New System for Chile.... 92
New Telautograph.... 100
Novel Installation at Dayton Exposition.... 118
Northwestern Increases Capital; to Spend Millions.... 142
No Slugs in Los Angeles.... 204
New Equipment for Calamus, Iowa.... 217
New Double Contact Push Button.... 274
Not Accountable for Paper Famine.... 329

O

One Year Gone, Another Started. Editorial.... 2-3
Objects to Postal Using Telephone Lines.... 34
Of Interest to the Trade.... 46-48, 105-108, 161-164, 217-220, 273-276, 329-331
Ordinance Recommends Chicago Automatic Sale.... 66
One Cent a Call Under Government Control Claimed.... 78
Operators Get Bonus Checks for Faithful Service.... 90
On Burying Cable Lines.... 118
Ohio State Booming.... 148
Oshkosh to Deal Through Jobbers.... 164
Oklahoma Independent Telephone Convention.... 203-204
Ohio State's Annual Meeting.... 204
Ohio's Campaign of Education. By Mae A. Marion.... 205-206
Organizing Independent Company in Utah.... 220
Ohio State Increasing Indiana Holdings.... 272
Oldest Telephone Operators in the World.... 274-275
Oklahoma Telephone News.... 301
On to Havana!.... 302

P

Public Utility Commission News.... 35-36, 95-100, 155-158, 212-216, 266-271, 313-319
Pays Par Value for Old Stock.... 62
Practical Kinks in Cable Maintenance. By Elmer E. Daicey.... 89-90
Physical Connection Gains Court Approval. Editorial.... 115
Pay Millions to Protect Light.... 128
Postal Offers Cut in Telephone Rates.... 148
Pupin Says Static Has Been Overcome.... 148
Proposed Wireless Installation in Spain.... 187
President May Open Salesman's Congress.... 220
Problems to Inductive Interference.... 239-242
Protected Guy Wires.... 274
Poles Kept from Sinking in Swampy Earth.... 305
Preservative Treatment of Poles. By F. L. Rhodes and R. F. Hosford.... 320-328

R

Registered at the Convention.... 39-45
Reeves Method of Preserving Wood.... 53
Resistance in Solid Back Transmitters.... 85-87
Radiophone Successful in Winter Maneuvers.... 136
Refuses to Enjoin Automatic Sale.... 150
Rochester Employes Get Increases.... 220
Railroads to Have Girl Operators.... 234
Radio Experiments in the Navy.... 238
Running Elevators by Telephone.... 275
Record Emergency Installation, A.... 329

S

Sues to Determine User's Rights.... 27
Sunset Company Asks for Reward of Franchise.... 27
Situation in England, The.... 38
South Dakota Independents Convene.... 45
Smoke Rots Cables.... 45
S-R Telephone Attachments for Private Service.... 50-51
S-R Electric Makes Many Installations.... 65
Simple Wireless Telephone Set.... 88
Stromberg-Carlson New Operator's Telephone Set.... 105
Standard Cable Company Announces Promotions.... 105-106
Safety-First Exhibit to Be Held at Washington, D. C.... 106
Switchboard Moved Without Interrupting Service.... 106-107
Stories in Pictures of Telephone Practice and Progress in All Parts of the World.... 4-5, 60-61, 116-117, 172-173, 228, 284-285
Sixth District of Missouri Meets.... 124
Simple Records for Local Exchanges. By Meddie Hanks.... 129-130
Stromberg-Carlson's Mine-a-Phone Bulletin.... 161
Stromberg-Carlson No. 10-A Repeating Coil.... 161-162
S-R Electric Exhibit.... 162-163
Service Helps.... 180
Ship's Anchor Breaks 3,000 Circuits.... 182

S

School for Telephone Problems.... 187
Six Companies Connected.... 187
St. Louis Has Single-System Bill.... 196
Some Experiments on Microphones. By Prof. P. O. Pedersen.... 197-203
S-R Battery Cut-Out, The.... 218
Serving by Telephone.... 233-234
Sixty Years of Experience.... 273
Stromberg-Inter-Comm. Phones for Sears, Roebuck.... 273
St. Paul Cuts Over to Automatic.... 284-285
Siamese Telephone Data.... 288
Some Problems of Inductive Interference. By L. T. Merwin.... 289-291
Southern States Convention, The.... 307
Stromberg-Carlson Equipment for Noblesville, Ind.... 330

T

Telephone Operation Displayed in Motion Pictures.... 16
To Test Wisconsin Physical Connection.... 22
Traffic Manager, The. By A. J. Shands.... 23-24
To Make New Valuation on Automatic in Chicago.... 24
Telephone Talks.... 25-27, 67-70, 125-128, 177-180, 235-238
$2,000,000 for Tri-State Automatics.... 34
Telephone and Light Companies Dispute Poles.... 34
Telephone Patents Issued Recently. By David S. Hulfish.... 37-38, 103-104, 159-160, 211-212, 263-264, 312-313
Thompson-Levering Has Interesting Display.... 51-52
Telephone Prosperity in Chicago.... 53
Telephone Popular with Moros.... 64
Telephone Brings Coast to Syracuse.... 78
Telephone Scrap Book, The.... 85, 183-187, 305-307
Two Meetings in Minneapolis.... 93-94
Texas & Pacific Dispatches by Telephone.... 106
True Nature of Speech, The. By John B. Flowers.... 131-135
Telephone from the Body.... 136
Telephone Number on Note Paper Fad.... 142
Tri-State Fighting for Connection.... 150
Threaten a New Company.... 150
Telephone Man's Hereafter, The.... 160
Telephones in Hard Coal Mines.... 162
Trade Conditions.... 162
Telephone Is Forty Years Old.... 174
Tests of Splices in Galvanized Wire.... 183-184
Transmission Company Avoids Induction.... 185-186
Texas Merger Opposed.... 196
Telephone System in Brazil.... 232
To Instruct Foresters.... 232
Telephone Between Cartagena and Barranquilla.... 247
Telephone Law of Minnesota, The. By Commissioner Charles Elmquist.... 248-250
Telephone-Post-Office Monopoly in Uruguay.... 250
Tri-State's Good Report, The.... 264
Train Dispatching by Automatic Telephone. By E. E. Trafton.... 297-299
Telephones on Approval.... 299
Telegraph Oddities.... 304
Trailmobile for Telephone Poles, A.... 306
Telemeter, The.... 332
Telephone Catalog That's Different, A.... 332

U

United States Independent Telephone Association, The. Editorial.... 1-2
U. S. I. T. A. is Bell Influenced, Says Allen.... 119-120
Underground Cable Without Conduit. Editorial.... 171
Use Your Local Newspapers (Editorial).... 283
Utah County to Control Rates.... 296

V

Visit the Kellogg Factory.... 219

W

Western Electric's New Headquarters.... 15
Western Electric Transfers Charter to New York.... 16
Western Electric Inter Phone System for Detroit Club.... 16
Western Electric Developments in 1915.... 48-49
What Association Means to Non-Members. Editorial.... 57-58
What's the Matter with the Telephone Business? Editorial.... 58-59
What's Doing in Minnesota.... 59
Western Pennsylvania Independents Meet.... 62
Watertown, S. D., to Vote on Franchise.... 78
Wisconsin Must Make Its Choice. Editorial.... 114-115
Wins Rate Case from City.... 128
What's the Matter with the Business? By Terry W. Allen.... 149-150
Wood Preservation an Economic Necessity.... 163
Why a Manufacturers' Association Would Help the Buyer. Editorial.... 171
Why Not Hold the Convention in October? (Editorial).... 282
Wage Commission Busy in Arkansas.... 311